




Jihwan Oh

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 /jihwan-oh31

Summary of Skills

Programming Languages: C++, C#, C, GLSL, Python

Libraries/APIs: WPF, GLFW, ImGui, WinForms, SDL2.0, OpenGL 3.3

Software: Unity, Visual Studio, Jupyter Notebook, Git, SVN

Verbal Languages: Korean, English, Japanese

Education

Bachelor of Science in Computer Science in Real-Time Interactive Simulation

Institution GPA: 3.61

DigiPen Institute of Technology

Expected Graduation: April 2023

Academic Projects

Tools Programmer

January 2023 - Present

Ares Engine - C# WPF Tools for C++ Graphic Custom Engine

- Created a validator that checks if the name convention is suitable for the engine and a function to make a list of model files to be loaded.
- Connect C# tool and C++ Engine with Inter Process Communication by using named pipe and visualize C++ variables and GLSL shader data with YAML library.

AI Programmer

January 2023 - Present

Machine Translation on Sentiment Analysis - *Natural Language Processing (NLP) project with Python*

- Translate the Korean/Japanese/Finnish with a Google Machine translation API and tested with pre-trained model with TextBlob
- Generate and Train the model with LSTM in Keras library, and Analyze the data with sklearn library.

AI / Gameplay Programmer for Solo Project

September 2022 - December 2022

Genetic Park - C# scripting project with Unity

- 'Genetic Park' is an AI simulator of 'Genetic Algorithm'. Creatures are generating the child with their genetic information and features are followed by them.
- Using Genetic Algorithm by using meiosis to generate the child from the parent and build strong AI by using binary-arranged genetic data and featured body energy consumption system.
- Created Behavior Tree for AI with C# and Modeled Carnivore/Herbivore's behaviors and built Hunting/Runaway mechanism.

Professional Experience

Teaching Assistant

Full Time: October 2021 - December 2021, **Part Time:** January 2023 - Present

DigiPen Institute of Technology

- Supported 20+ students in the Operating Systems, Advanced C/C++, and Game Project Introduction, 10+ students in Algorithm Analysis
- Graded, helped assignments, and advised students by opening meeting section, attending class to answering questions.

Student Representative

January 2017 - May 2017

DigiPen Institute of Technology - DP-KMU Campus

Awards

A* Speed Contest - 2nd place

2019 Spring

Dean's Honor List

2018 Fall, 2022 Fall